

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/10/98
Date Received: 08/28/98
Project: Percent of acid, PO# M76999
Date Samples Extracted: 09/04/98
Date Extracts Analyzed: 09/08/98

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLES
FOR IRON**

USING METHOD 6010

Samples Processed Using Method 3005A

Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Iron</u>
M76999 A Large Tank	60,000
M76999 B Small Tank	51,000
Method Blank	<0.2

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Date of Report: 09/10/98

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Date Analyzed: 08/31/98

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLES
FOR % ACID**

Results Reported as Percent Acid by Volume

<u>Sample ID</u>	<u>% Acid</u>
M76999 A Large Tank	9.1
M76999 B Small Tank	8.9
M76999 C Rinse Tank	6.2

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Date Analyzed: 08/31/98

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLES
FOR SPECIFIC GRAVITY
@ 15.56 °C**

<u>Sample ID</u>	<u>Specific Gravity</u>
M76999 A Large Tank	1.27
M76999 B Small Tank	1.28
M76999 C Rinse Tank	1.15
Method Blank	1.00

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**QUALITY ASSURANCE RESULTS FOR IRON
BY INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Laboratory Code: 808110-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Iron	mg/l (ppm)	5.4	5.1	6	0-20

Laboratory Code: 808110-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Iron	mg/l (ppm)	10	5.4	103	109	50-150	6

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Iron	mg/l (ppm)	10	107	103	80-120	4

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QUALITY ASSURANCE RESULTS FOR SPECIFIC GRAVITY

Laboratory Code: 808111-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Specific Gravity@ 15.56°C	1.27	1.27	0	0-20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
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September 10, 1998

DUPLICATE COPY

INVOICE #98ACU0910-1

Accounts Payable
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

RE: Project Percent of acid, PO# M76999: Results of testing requested by
Gerry Thompson for material submitted on August 28, 1998.

2 water samples analyzed for Iron using Method 6010 @ \$35 per sample	\$ 70.00
3 water samples analyzed for Percent of Acid @ \$25 per sample	75.00
3 water samples analyzed for Specific Gravity @ \$25 per sample	<u>75.00</u>
Amount Due	\$ 220.00

FEDERAL TAX ID (b) (6)

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Seattle, WA 98119-2029
TEL: (206) 285-8282
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September 10, 1998

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

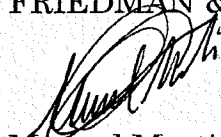
Dear Mr. Thompson:

Included are the results from the testing of material submitted on August 28, 1998 from your Percent of acid, PO# M76999 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Manuel Marti
Project Manager

Enclosures
ACU0910R.DOC